

## SEQUENCE LISTING

&lt;110&gt; Wong et al.

&lt;120&gt; CLONING OF RHADINOVIRUS GENOME AND METHODS FOR ITS USE

&lt;130&gt; 53683

&lt;140&gt; 60/107,507

&lt;141&gt; 1998-11-06

&lt;140&gt; 60/109,409

&lt;141&gt; 1998-11-20

&lt;160&gt; 179

&lt;170&gt;

&lt;210&gt; 1

&lt;211&gt; 133719

&lt;212&gt; DNA

&lt;213&gt; Macaca mulatta rhadinovirus 17577

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## SEQ ID NO 2

CDS nucleotides 1353-2624

## SEQ ID NO 3

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## SEQ ID NO 4

CDS complement (2692..3258)

/note="dihydrofolate reductase; ORF 2; similar to Kaposi's  
 sarcoma-associated herpesvirus ORF 2"

## SEQ ID NO 5

MDITVNCIVAVDEQLGIGKNGTMPWPYLRNEMMYFQKMTSTPSVVGKRTWFSIPEKKRPLVNRINIILSREL  
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## SEQ ID NO 6

CDS

3676..5613

/note="complement binding protein; ORF 4; similar to  
 Kaposi's sarcoma-associated herpesvirus ORF 4"

## SEQ ID NO 7

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SEQ ID NO 8	CDS	6045..9443
<pre>/note="ssDNA binding protein; ORF 6; similar to Kaposi's sarcoma-associated herpesvirus ORF 6" /translation="MASKGNAGQPLEDNQGSRAPIGACGYVYAYSQDFPFAEASILG NRPSGSGVFSLPILYGLTVEHEFPLTVKAAYKKVDTTTLAVKVTCHREVIVFHNASL FRPVFDGTGLNELCEEARALFGYQFIEPGPPHSIWNPLECPQLPDKDEMFLGVVTE GFKERLWRGCLVPAVFTQQVQIAGRQAFKVPLYDEDLFAFPHGHRMPRFYHKDVSAYL YDSLFTSIAQALRLKDVTAVIHATEKQFMQDHYKIAKIVQAKQFSTTLPKTTDGSSHM IVDSVVAELALSYGCMFLECPQDACEFLNYDSWPIFDGCDSPPEARVNALEWRSAEQAV HVAGQLFAANSVLYLTQVKQAPRGQKGDVNVYNSFFLQHGLGFLNEATIKENGSEAF KGVPNSALDGSSFTPYHLAYAASFSPHLLAKLCYMMQFLQHHKSSTNQAFNMVHYVGT AANSEMCTLCHGNTPATCLNTLFYRLKDRFPAVTTPQRRDPYVVTGTAGTFNDLEILG NFASFRDREEDGNPADEHPKTYWQLCQTVTEKLSAIGITEDHDNHVNLTNIQSFLR VFKGIDSIVDGEVMKFVNNSMIKNNFNREHVKSVHHILQFCCNVYWQAPCAVFLNLY KSLLWIIQDIDLCPYCMIEQDNPAMGILPSEWLKMHFQTLWTNFKAACLDRGVLTGCE LKIVHRDMFCDFDFTDAGSNGLMAPFKMQRVIAARAMMVPKSIKIKNRIIFSNTAGSE AVQSGFVKPTGTRDTVVAGPYMKFLNSLHRAFLPDTKTAALYLWHKISQTNKTPVLIK DVPDDELAELSVYVKTNSLAFEETNVLDVVPDSLMSYARIKLNAILRACQQIQFYAT TLHCLTPVLQTDAAEYPHVLGSAAITPVAYLAEIRGRTALTQTTARQPVAATGRL RPVITVPMVVNVKTYGVNGNNNVFHCGNLGYFAGRGVDRNLWPESSPFKKTGVSAMLRK RHVMMTPIIDRLIKRAAGQTISTFEAEHSVRSVQALLEDKDNPNLLKSVILEIRHLG KGCQDLSSEDVQYYLGDYCMLTDEVFTLDNIAQSGVPWTIEDAGALIEDRQDADDLQ FVDSDDIATASCQPPPEEQLPTPSAGALLAGKKRKINALLSDLDL"</pre>		
SEQ ID NO 10	CDS	9468..11528
<pre>/note="transport protein; ORF 7; similar to Kaposi's sarcoma-associated herpesvirus ORF 7" /translation="MARELAALYAQLSALAVDLSLVIFADPRSIDGARILKTKTQIEN LNRDPLLREQNSVETSSLSLEVEHLAKNIEDKLGEELERSLRQRYSSREHFETLHLR PECHYHSTVTQFYGGGLIDVNMCINDVELLCKRLGSVFYCIGANEALSGLNRVLT LSTLRGISPIPHPDLYVTSVPCVQCLREIELVNPQGSSLLAVLADRHCDCHLCKVRAE PIHGLFETELSQLGLKVTKRSQDATQHGVRSSADQLRESSLAAIQDHNIFKRVSAIME LSNLIYWNAGQTGLQTGTENECSQMARLLTHEADMHEHRALITPKLSATHFYDCFRPD PIESLFCGGLFNSIDDTINALSRDCSVTFQQANYTNVMRKQNEFLTRLNSILRQGSA GSQKPATPSEPRTTTVATAASDVIKDAQYRKEQYMKKVARDFKLLTECLQTQSAVL ANALCMRVWGGVAYGEASELVNHFLRRRFVALPWEARCRSDQILFENSKYIKNSLYS QRLSREHVEIITLQFYGLITGPLTRQSDLFPGPANVALAQCFEAAGMLPHHKMLVSEM IWPQIQPKDWIDQTFNRFYQLPEGDLNAVQKSAWCIRELVLVALYNRTWEKTLRIF SLAREKLSISNLDVKGLTSGLYLTYEQDAPLVLISQNTGWIFKDLYALLYHHLQLSDG HDDN"</pre>		
SEQ ID NO 12	CDS	11515..14004
<pre>/note="glycoprotein B; ORF 8; similar to Kaposi's sarcoma-associated herpesvirus ORF 8" /translation="MMITNRTRLLRAWVIIIAIGTAVGENVTPKGATTAKPTPGP STPTPPENPPRAEAFKFRVCASATGELFRFNLEKTCPGTEDKTHQEGILMVFKKNIV</pre>		

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SEQ ID NO 14	CDS	14122..17166
	/note="DNA polymerase; ORF 9; similar to Kaposi's sarcoma-associated herpesvirus ORF 9"	
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SEQ ID NO 16	CDS	17261..18511
	/note="unknown; ORF 10; similar to Kaposi's sarcoma-associated herpesvirus ORF 10"	
SEQ ID NO 17	/translation="MLVNELSVVLDWEVTFHGRGRFSFVNLTQLTFKGHGGYARVRL PFSLDQLLHQHFAFGVTRLKEPPFSDCVALIAPLDSGGDADAARVAPGFVLDSSRP LTVVWNASGRHTIRFCLLFLKPIDLERAVTYVFGENGARSEGTPKPTCATESLPGGP LRVSGEASQTSPHSFVAYFPTANSVACSLSLRLQVRPFSSDAHRDARISPKYVTFSN SGGNVCKASVHTLSPSRCKTAQMEIIYAPGDPNAEIVLGQSGPVLPHTGGRVLGVYA DAEKTIQPGSSAEVRVQLIFQQGAAARGDLAFLVTGVAPEPLFVVTPALLSGCTTHL RLFNPNGTPTTIKRDTLVAAAAPCPVVRLLSADDAPRDLVASPDTGALSINAFTIPVG FPGVVAECHVSLRDNGVHERMNH"	
SEQ ID NO 18	CDS	18520..19749
	/note="unknown; ORF 11; similar to Kaposi's sarcoma-associated herpesvirus ORF 11"	
SEQ ID NO 19	/translation="MGTIVRFFRGEWQTSSLVDNGTPRYSSLVWAATIHDGYLTIVNR SELCVTERSPCLPACPSIGRLVKGKRFPGFAFASATLGDRGTRTVFYAFGHRDNPLDIV PAVVERADRELVLRVHAPQTTRVSRYGLKVFVAITVVRPPGVFLHFPQDRVPIALTD ACSQEGSRLTSEEPWIKIQGFPVLSDETAHPFLLTQKTPFTERKFCRLIMDNDQRSA VNTVYLGKQHVRVTVTRPPEIIVTDGPVTATLSLTGNAPIAFRHNPFELPPWSSTAI FTPVYYVGLTVCIPPNCASFVRYGNTYVSAFNRLTAIIISNHAHNGGFRIQDCEWPPN	

REIEILVTNVSQAPVYISTGTQLGQAI FVFAPRFGGPAKLRLQLLGHRSRALELPGGVT  
VDSQKLCRFETMYLFST"

SEQ ID NO 20 CDS complement (19921..20544)  
 /note="R2; similar to IL-6"  
 /translation="MFPVVFVLFYLSWAASPTLAPPPTAACINVLPQWAGNRASLDR  
 TRGRLEVGGLNIQRWFVYLCMHSTLCRVREYPRIMSFVHFPIILMSNVECORREFRGAEC  
 CMNAMVRGLRAYESYLTRLRMLDDAPGDADAAAIGSAVTVVL SALDSLIEELPVNNK  
 IGGAESNEKTVRALGGQSPRDVVLSAFRILEYLQMFILRDGRRAIAMM"

SEQ ID NO 22 CDS complement (20777..21778)  
 /note="thymidylate synthase; ORF 70; similar to Kaposi's  
 sarcoma-associated herpesvirus ORF 70"  
 /translation="MIVLVHLGICYVKKII PWCVAGIAARL RVS APEGAAVRCAC  
 RGDHGELOQYLAHLDLKHGVQREDRTGVGTRSVFGLQARYNLRDEFPLTTKRVFWR  
 GVVEELLWFIRGSTDTELSRRGVKIWDAGSRAFLAAQGFGDRREGDLGPVYGFQWR  
 HFGAEYRGADANYEGQGVQLRYYVDLINRRPHDRRIVMCAWNPADLARMALPPCHVL  
 CQFYVARGELSCQLYQRSADMGLGVFPNIA SYALLTYLIAHTGLTPGDFVHTLDAH  
 VYNNHVDPLLQLRRTPRFPRLKILRKVARLEDFTRADLSLEGYDPHPHIEMEMAV"

SEQ ID NO 24 CDS complement (22245..22592)  
 /note="R3; similar to Kaposi's sarcoma-associated  
 herpesvirus K4 viral MIP"  
 /translation="MRGLFVCVFFAVFACVVDYAFPMGMSGPAPELCCLGYVTHLPP  
 PGLVVSYSHTSSQCSVDAVLNTRRGKKLCANPGDDAVKKLLQAVDKRPKKGRRTRRS  
 LIDDSEEGLGSGI"

SEQ ID NO 26 CDS 26846..27409  
 /note="Bcl-2 homolog; ORF 16; similar to Kaposi's  
 sarcoma-associated herpesvirus ORF 16"  
 /translation="MAAVQGPPPPPEENENS LPVDVY AIEGIFLYCGLGQAEYLHHP  
 VFSPIKEFISAFKLDSARLYERLLRHTDYRSLRGLNAIGQGMLQINTDGRHNWGRALA  
 VLGLGAYVVDVKVDDERLLTFAIAVLPVYAYEALESQWFRSHGEWEGLRNYCERILRH  
 RRNARRHMCYGVAGL LALVALFAIRR"

SEQ ID NO 28 CDS complement (27515..29125)  
 /note="capsid protein; ORF 17; similar to Kaposi's  
 sarcoma-associated herpesvirus ORF 17"  
 /translation="MTPVYVGYYVDVVS LPKIEKELYLEPSIVATLLPYTDPLPINIE  
 HVPEAHVGHTIGLFQVTHGIFCLGKLTSHDFLALASRLAGDSRAAQIQLNPMPRDPL  
 EMLHTWLPELSLSSLHPEELQDPNHPAFQHVS LCALGRRGSIAVYGPDP TWWVSKF  
 DSLTREEAGKITVNCLDLCE RQVTPPEFAAPLETLMAKAIDAGFIRDRTDLLKTDKG  
 ARVARSTYKLKASQFPCAQHCGNRDTRTMSALPEDNITIPKSTFLTMVQSSLDNMRNQG  
 HRTYVSAPPSPMPATAAYPSWIPPELTVP SYAPPVAPPFFQSAFAPQPSPYATYY  
 PTYGYAPAPS RHRQKRKRDVELSDEPVFPGEVG IHKDVMAL SKNILD IQADL RDLKRA  
 ASQTSGAQDADQRPQPPPQFWSWPQTYASAPYLA YQPQWYSGTDTHLHAPQPYQSAQG  
 IQQTQPPPQPA SHAGLATQPATPAPAAQESVMSNAIPSASAPRAGACPPLDPECQG  
 SARAPVEASAQPAPVSQI QKMFCEELLK"

SEQ ID NO 30 CDS 28998..29897  
 /note="unknown; ORF 18; similar to Kaposi's  
 sarcoma-associated herpesvirus ORF 18"  
 /translation="MFIGRGSVYGSRVATIEGSKYSSFSIFGRLLTSTYPTYTGVML  
 GRCLREPKE MSAGL RGLMWRVIRCE NLTFLPGELRFLHVLCE MNYGLNVYLLKEA  
 IANTGTRDDIVLGRKVPVEFWKIVYDGLKEMGVSDATLLSETKRGALWLYFNGRPC  
 KGLGDYVFCQGLG LSHS VRVVPENL TDGNYLYNLSV I PCRL LVALSYCLAFWGHADHE  
 PWVRLFAGKIFILYLIISGHIMPRKSILEQVGTSGYGGFVEAVCRDVRAVHGIPAWDF  
 ASAAPALTSQQTDYLFAFNNSVV"

SEQ ID NO 31 CDS

SEQ ID NO 32 CDS complement (29905..31548)  
 /note="tegument protein; ORF 19; similar to Kaposi's sarcoma-associated herpesvirus ORF 19"  
 /translation="MRTSEKCCMRYPRKPARQITATFWAPHPNVLFHKPSLIEERR  
 NAFVMRNQQQLALRVHTLRKNLLRELDNVILQTHQRETEVVMRDLETIQNMVGDLRSPG  
 RETANAQTSLNPQPKIAPQTHGDAFVVTIAPGDPGFTVQNQDLRLELLPSLYMNQNW  
 PQYGPWYSSLTDNAMQRRVFPDLRGTTNFQNSTSLKLMASAVISTAASITQDFYADVR  
 NVSDTQAALCLLNGYYCHRTGTPLPTRNGLWDNLGKLATLVSHLKQNTKGLGFEFT  
 YSNPRQRASLAPLNKETKYNADFFTNTHVIYATLAQSGLLPGSKNPGBTGQPPGPDLVYI  
 LATTLFSEDVPPFQAYQWNLRAGLSALGCLVLVYVLLAQTIPRSPHRRLNLASLLG  
 GRFSKVEDPSGSKQYLKKGQLFDLTERNYISPILSRADAPTSLFPGAYLAALEAKA  
 ISHLKHTRPFVNLTGSRFNEIFDILNQKLTFRDAGSLIQAQTSRLTAEELAAILSH  
 PSPPGLAHEIMKSQFGVYDDYDRVYFLVLGYLPVATSVV"

SEQ ID NO 34 CDS complement (31043..32095)  
 /note="unknown; ORF 20; similar to Kaposi's sarcoma-associated herpesvirus ORF 20"  
 /translation="MAFANQCKHVATLEALPASRKAGTRAHLAVYRRLIKHRSLDDI  
 LKFLSIRPTLRATKVNKFRIFFEVSIGRRIACDVLTNVSEHQKTCYVIELKTCLSAAV  
 FPGNAIKISQRWQGLHQLTDSVAYIGRAAPRGHENWSVRPWLLFKNQKTLKTIHTESS  
 AFPPTFINTTSAALNGFFSQWEDAHVRKMLYEIPTKTSAAANYRNFLGPPSKQRSVYSQ  
 TISDRRKKKRVCDAKSTAGAKGSHAAKKPAPARTRQRAANAPTRQNSGHARPRNNSKH  
 GRGSAVPGQGNRQCPNITKPATQNPADTWRRVRCHNSPRRPGIHGKPGSPSGAPAKP  
 VHEPKPMAATIRAVVQ"

SEQ ID NO 36 CDS 32094..33767  
 /note="thymidine kinase; ORF 21; similar to Kaposi's sarcoma-associated herpesvirus ORF 21"  
 /translation="MAEGGSGFGDELVRQMRDRKPRWDESSDDTDDVDTESTDLEYDD  
 VFPVVDTHGLMSPGSQNYDVPTSPSGTPWELLHPDALYAHPRCPPKRAVPGGGARPK  
 VSAFSARLQYVGRQSGFDRETRQLTGAQFSSEHEYEAEIPERTTTTRPVESGDKRNFT  
 SGRRGAISGSPSSTKPSHGAGLTRKTTSVSLKNLLRIKDDDAKVDVPRPVTVPVHL  
 MQPHPMTEYRNAFLIYLEGVGMVGKTTLLNSMTGMVPQEVLSCPEPMKFWTCVYSNC  
 LKEQRSIVKQGTHGKLITSARVYACQSKFALPFRATAAGIGRNLQPWLVGNSTK PAN  
 WIVFDRHLLSATVVFPLVHVKNRLTPDHLFQIILSLSAHDGVVVLTLNSSEAHRR  
 IQRSGRKEEKGITQNYLRQVAWAYHAVFTWVMMQYLTPEQMVQLCVQTVSIEDICNM  
 NSRLTHRFLTLTKLHEQSMIPMVAEMLVSKEHVTLMEVCLGLFKELRKQLIIVDAG  
 EHLDDACGLWGNIYGQVMSNEAIKPRAVNPALESYIQTLTKELENGAY"

SEQ ID NO 38 CDS 33754..35868  
 /note="glycoprotein H; ORF 22; similar to Kaposi's sarcoma-associated herpesvirus ORF 22"  
 /translation="MARISIFFFTIIRCSVTDKYVYDEKSNVLEFNGTIYQINWRN  
 VSKELTSIVMEDAWYDSLLLEPLSVTLEKRKSLLRSSIVNVHNNDTFCKSSSDHVIN  
 LTVDFNYSSLPGFTGNFNMTHALTQGVLLTKREFTNSTNIMDLFYAEKINAEMFKI  
 TFDYSNVIISGIITENWILSVTNTSSVKSNMQCVALLFGVPSTFPALKGYVSYRDLLV  
 VKNSNYALGVIAPKSYNTLDDLAFLPKNFTEMFVSVIDSPNNAIDYLKGKLLAIEAKGA  
 CQPNSENNDILSFFFEVTAVNFLFIKNLQKQQLVNVCVVRHVALESIMHLLRLCYP  
 TFKLYELNLETLSHIAESQVFNLPA NSMMLSLSVNDQEVVFSMFKIVYNTPKVGGKILN  
 EIVYITNYMYTKSENYQLNTFRRNVMNMYEVLTTLKLNVTDSSVFYPPYIILFTSMCN  
 NVEISYMINQIAKPDDITIFRVSFPCFLSLRFDLDENKLRSAPOTSRTGSELAQGA  
 SGFWRLLHAFHATRINEFSVINCTRLAWKQVTALMPLTNITYVISSVRPDHARVEVS  
 EVFLNSAMFVSAYVNCSSHFTPPGTALHIPILYNFSA PRIGCPLCDSIVLSYDENQGL  
 QTMMYVSNPTVQANLFSPYSPFFDNDNFHIHYLWLMNNGTVVEIRGLYRRHALSAIAL  
 VFAFIGTMSALYFLFKLFSILA"

SEQ ID NO 39 CDS

SEQ ID NO 40 CDS complement (35865..37073)  
 /note="unknown; ORF 23; similar to Kaposi's sarcoma-associated herpesvirus ORF 23"  
 /translation="MIKISDLKARLVGGAVQLSNGEYVCHVYSSALAAMVGLPGPAVPLPLLFKKFSTIYSNMMPLYAPKRPELSMLRIMSPHYALNSCLCVGTDEGERGVSLFRDPVIRSSDFEDTPITVNSKLVIASNSLFLHCRPFSVPATVKTPVTLTNNKQITINELANTTQEYDPNAPPTLCSALPPDNKKLRSILKQPPATSESVQSDCLLADIFFAMGSRQPQIGESPITAFNTVTIMQRANNSIMFLPNLKLKPIQHFLKHVLLQRLGLENILFHFKMLYANTCKAAGPYQREYFESMLSRVKQRLEDMVFCLNSIESHDFQKDFRVLRSAPOQRLLTATDKYFLMFPPQNRELAIQVGAEVIESICDGTPLEVLANLSPRTIQLKETGNNLLKFYALLTV"

SEQ ID NO 42 CDS complement (37123..39321)  
 /note="unknown; ORF 24; similar to Kaposi's sarcoma-associated herpesvirus ORF 24"  
 /translation="MLLQGPVLLPACPATVAANAPSPANSDFKTQLAIFCCLATNNEILENVSLEALDRAMQTETTFYACRALRRVLIGEGLYPFIHRQGGIVGKTGNEYAGPGLIIDDAIGCTFSHIETHFLPTVFTYELSDTVLVSDERILRSLYCSPLMCGVNYQSMFRLCRYLQIWEFEECFAAFTRTLPEHLIGTCYQNYFKLLEPFKILTLARCPPCAKLHLYNLKFNILGFTSDWISHPELHRVQTVIIHNIESNPVLLKNLSKQNKFQDIKVASELIIDYQNIVNQSLDVNLQVKINKDPGKKPYKVVVTPKSTYYLTFPPEVPIFRVMCMSVAEHVCHSCDRLLYPNTEFLGPGETPRVLEAMFSRIQYAPKDRDYNFIFNADQNPDRYEQARHDHQTEPLPDMFDPVKHMMSLHNFKISVFNTNMVINTKITCWSLAGTFESIIDIPIRLTNNFVMKKFSVKEPSFTSVFYSNDLNCNGAAINVNISGDMLHFMFAMGNLRCFLPVKHFPPVSIANWNSTLDLHGLENYQIVRRGRRDVFWTTFNPSVVSNDGCNVSWFKAATA TISKIYGRPLLKKLSDELNPILSPVYARIDQVKNTIFTLETTRNKAQIQTLLHKRFIECTIVECCSFLRLDLGALNRAARLGTDFSKRIISHTKSHECAILGYKKCNLIPKIVRSKKIRLDELGRNANFMSFIATTGHAFSNLKPQVIRHTIRRLGLHWRHKAKI"

SEQ ID NO 44 CDS 39323..43459  
 /note="major capsid protein; ORF 25; similar to Kaposi's sarcoma-associated herpesvirus ORF 25"  
 /translation="MEAALEVRPPYPMATEANLLRQMKEASAASGLFKSFQLLLGDAREGGVQFEGLLGVYTNVIQFVKFLETSLAVACVNTEFKDLKRMTDGKIQFKSVPTIAYGDGRRPTKQKQYIIMKACNKHHIGAEIELSTDDIELLFIDRETPLDYTEYAGAVKTITASLQFGVDALERGLVDTVLNVKLRSAAPPMFILKTLSDPVYTERGLKAKVSKDMVSMFKSYLMDNSFFLDKSDIAVKGKQYVLSVLSMDMVGAVCHETVFKGTNTYLSASGEPIAGVMETTENVMRKLLNMLGQVDGGMSGPASYANYVVRGENLVTAVTYGRVMRTFDQFMKRVDRPNAQPSVDDDRDAVADGQDSLAKTPIAAAVIQIGDKLVAESLQRMYNETQFPFPLNRRMHYTFFPIGLHMMPRPQYSTSATIKGVEHPAEQSVETWIVNKNNVLLSFNYQNALKSICHPRMHNPMPCGQALQAFPDPGHVFHRYGQRSEHPPNMNLGYLVNYYQGKNAVKVPDVALKATMTTDELLHPTSHETLRLEVHMPFDFFVHQOPGAQAAYRATHRTMVGNIQPLAPNEFQNSRGLQFDRAAAVAHLDQSTMIIQDTAFDTSYPLLCYVIECLIHGQE DKFLINSPLIALTIETYWNNAAGKLAFINSPMLRFICVHLCNGSISKDVAHYRKVFGELVVLQQALSKIAGHEVVGRPASELINCLQDPNLLPPFAYNDVFTNLLRQSSRHPMV LIGDEGYETENDRDTYINVRGKMEDLVGDMVNIVETRNNADHDGRHVLDVGPNEEQ HMAVLEKLFFYYVVLPACTNGHVGCMGVDFNVALALTYNGPVFADVNPDEILDHLE NGTLREMLEASDIHPTVDMIRTLCTSFLTCPFTQASRVTQRDPAQLLTTDGRYV SQTVLVNGFAAFAIADRSRDVAETMFYPPVFTKLYSDPLVAATLHPLVANYVTRLPAQRVPVAFNVPALMAEYEEWHKSPMLAYANTCPMTPTSLSTLASMHMKLSAPGFICHAKHKIHPGFAMTAVRTDEVLAENLLFSARASTSMFLGQPSVMRREVRADAVTFEVNHEA SLDMALGYSSTITPAHVAAITSDMGVHCQDMFLMFPGDSYQDRTLNDYVKQAGCQRF GGGQIREPVAYVAGVPHSDNIPGLSHGQLATCEIVLTPVTADVTYFQTPNSPRGRAS CVISCDAYNNEAERLLFDHSIPDSAYEYRTTVNPWASQQGSLGDVLYNSTSRQVAVP GMYSPCRQFFHKDAILRNNRGLNTLVTEYAARLTGTPATSATDLQYVVVNGTDVFLEQ PCQFLQEAFPTLAAASHRSLLDEYMSNKLTHAPVHMGHMYIEEVAPMKRLLKIGNKVAY

SEQ ID NO 45 CDS 39323..43459  
 /note="major capsid protein; ORF 25; similar to Kaposi's sarcoma-associated herpesvirus ORF 25"  
 /translation="MEAALEVRPPYPMATEANLLRQMKEASAASGLFKSFQLLLGDAREGGVQFEGLLGVYTNVIQFVKFLETSLAVACVNTEFKDLKRMTDGKIQFKSVPTIAYGDGRRPTKQKQYIIMKACNKHHIGAEIELSTDDIELLFIDRETPLDYTEYAGAVKTITASLQFGVDALERGLVDTVLNVKLRSAAPPMFILKTLSDPVYTERGLKAKVSKDMVSMFKSYLMDNSFFLDKSDIAVKGKQYVLSVLSMDMVGAVCHETVFKGTNTYLSASGEPIAGVMETTENVMRKLLNMLGQVDGGMSGPASYANYVVRGENLVTAVTYGRVMRTFDQFMKRVDRPNAQPSVDDDRDAVADGQDSLAKTPIAAAVIQIGDKLVAESLQRMYNETQFPFPLNRRMHYTFFPIGLHMMPRPQYSTSATIKGVEHPAEQSVETWIVNKNNVLLSFNYQNALKSICHPRMHNPMPCGQALQAFPDPGHVFHRYGQRSEHPPNMNLGYLVNYYQGKNAVKVPDVALKATMTTDELLHPTSHETLRLEVHMPFDFFVHQOPGAQAAYRATHRTMVGNIQPLAPNEFQNSRGLQFDRAAAVAHLDQSTMIIQDTAFDTSYPLLCYVIECLIHGQE DKFLINSPLIALTIETYWNNAAGKLAFINSPMLRFICVHLCNGSISKDVAHYRKVFGELVVLQQALSKIAGHEVVGRPASELINCLQDPNLLPPFAYNDVFTNLLRQSSRHPMV LIGDEGYETENDRDTYINVRGKMEDLVGDMVNIVETRNNADHDGRHVLDVGPNEEQ HMAVLEKLFFYYVVLPACTNGHVGCMGVDFNVALALTYNGPVFADVNPDEILDHLE NGTLREMLEASDIHPTVDMIRTLCTSFLTCPFTQASRVTQRDPAQLLTTDGRYV SQTVLVNGFAAFAIADRSRDVAETMFYPPVFTKLYSDPLVAATLHPLVANYVTRLPAQRVPVAFNVPALMAEYEEWHKSPMLAYANTCPMTPTSLSTLASMHMKLSAPGFICHAKHKIHPGFAMTAVRTDEVLAENLLFSARASTSMFLGQPSVMRREVRADAVTFEVNHEA SLDMALGYSSTITPAHVAAITSDMGVHCQDMFLMFPGDSYQDRTLNDYVKQAGCQRF GGGQIREPVAYVAGVPHSDNIPGLSHGQLATCEIVLTPVTADVTYFQTPNSPRGRAS CVISCDAYNNEAERLLFDHSIPDSAYEYRTTVNPWASQQGSLGDVLYNSTSRQVAVP GMYSPCRQFFHKDAILRNNRGLNTLVTEYAARLTGTPATSATDLQYVVVNGTDVFLEQ PCQFLQEAFPTLAAASHRSLLDEYMSNKLTHAPVHMGHMYIEEVAPMKRLLKIGNKVAY

SEQ ID NO 46	CDS	43491..44408
		/note="capsid protein; ORF 26; similar to Kaposi's sarcoma-associated herpesvirus ORF 26"
SEQ ID NO 47		/translation="MALDKSIVVSVTSRLFADEIANLQSKIGCILPLRDAHRLQNIQA LGLGNLCSRDSAVDFIQAHYLDKCTLAVLEEVGPNSRLTRIDPMNDNYQIKNAYQPA FHWDNYSELVVIIPPVFGRKDATVSLESNGFDVVFPAVVPEPLAQTVLQKLLLYNIYR VAETTPTDVNLAEVTLTYTTNITYMGRNYALDVDPVGSSSAMRMLDDLSIYLCVLSALI PRGCVRLLTSLVLRHNKHELVEIFEGVVPPEVQALDLNNVSADDITRMGALITYLRSL SSIFNLGRRFHVYAFSSDTNTASCWCAYN"
SEQ ID NO 48	CDS	44433..45242
		/note="unknown; ORF 27; similar to Kaposi's sarcoma-associated herpesvirus ORF 27"
SEQ ID NO 49		/translation="MSIPKIMTVSRDNEGTVCCEVAVDNGRHRAMIYPKTTNLANERA DVVKEAFDTETPVDIVKQIVNEGLAISKKNCVRLALYLYFYLQYVCFALLLTWQLNPY MDPGGLVFAVNPMGPKHVTKLPHPAIVAVGCGADAICKNCSPDIKTELGMVYHNGSS DSGQRAHYGLALLKAAWLVMGNVCPEPVVRQGAALLGPWRNTEWSDFKSAMAATTFCG SRGVLWSPSPIHEKNLCRPTWNDVINTSVFTNESLCPNIPVVPESVIVLNGDA"
SEQ ID NO 50	CDS	45408..45683
		/note="unknown; ORF 28; similar to Kaposi's sarcoma-associated herpesvirus ORF 28"
SEQ ID NO 51		/translation="MTAHTNGVLTTTGFSTSQPESVQVSPFYRVITKPPVMGLFFCVA MCVIALVWYVMRRVCCKGRVVADSCRDPHQPAYEMLNVRLRPHGTNP"
SEQ ID NO 52	CDS	complement(45733..46779)
		/note="unknown; ORF 29b; similar to Kaposi's sarcoma-associated herpesvirus ORF 29b"
SEQ ID NO 53		/translation="MLQKDAKLIIFISSNSSDKSTSFLNLKDAHEKMLNVVNYVCPD HKDDDFNLQDTVVACPCYRLHIPAYITIDETVRSTTNLFLEGAFSTELMGDAATSAQSM HKIVSDSSLSQLDLCRVKSTSQDIQGAMKPCFLHVYIDPAYTNNTDASGTGIGAVIAWN HKVIKICILLGVHFFLRLDTGTAAQIASCALIRAIVTLHPQITHVNVAVEGNSSQ DAGVAIATVNEICSVPLSFLHHVDKNTLIRSPIYMLGPEKAKAFESFIYALNSGTF S ASQTVVSHTIKLSFDPVAYLIDQIKAIRCIPLKDGHTYCAKQKTMSSDDVLVAAMAH YMATNDKFVFKSLE"
SEQ ID NO 54	CDS	46905..47135
		/note="unknown; ORF 30; similar to Kaposi's sarcoma-associated herpesvirus ORF 30"
SEQ ID NO 55		/translation="MENDTPKDKISEADFQQCQAFFHRPIRDLISSLGADALNHFSLSE SDGHKLERIVLLLVLGVTECLSYTTIAAKNVK"
SEQ ID NO 56	CDS	47093..47746
		/note="unknown; ORF 31; similar to Kaposi's sarcoma-associated herpesvirus ORF 31"
SEQ ID NO 57		/translation="MSLLYHDRCKECQMTRVNSPICRFHNVSNLYQCLDCKRYHVCDF GRNCVIVYVRENLCVCDLTGNCVLDNVQDVC SYGPPERRVPDAFIDPLVSHGTRECLKS DILRYFETGVVKSEAYSTVVKNGQLNGIIGRLIDATFNECLPVMSDGEGGRDLAASIY IHIIISIYSTKTVYDNLLFKCTRNNKYDHIVKTIRAQWMRMVSTGDP SRVSATGCFT"
SEQ ID NO 58	CDS	47683..49077
		/note="unknown; ORF 32; similar to Kaposi's sarcoma-associated herpesvirus ORF 32"
SEQ ID NO 59		/translation="MDAHGLNRRSVAGQCDGLFHVILPRGFILANNITCGERQRFFAH TWFAASGRTSKTLVWGRVFQNTDPGRGDGPGWSGLAISLPLFTTNGKFHPFDVVI

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LKADTPDSGSSTVKFLYMSLIAAYRNAMRGLKDKVSQCTDAAVDGEVHPLTVLKEAL  
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SEQ ID NO 60 CDS 49049..50059  
 /note="unknown; ORF 33; similar to Kaposi's  
 sarcoma-associated herpesvirus ORF 33"  
 /translation="MATQRRHILKSFLNKECIWLRHPTSAFVRVYTATTAAHSAVFDP  
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 QINPFLWFDGGAFWQLFLSVDFMLLCPALDTVPSLARIVGLLTQCDKSTCKICTGAHV  
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SEQ ID NO 62 CDS complement (49977..50960)  
 /note="unknown; ORF 29a; similar to Kaposi's  
 sarcoma-associated herpesvirus ORF 29a"  
 /translation="MLLTSYRERLQNNLRVVTDGGCENWFRQPPVIISGNDKTERMAH  
 PCLGVIHAVNAYSSVLLDDYLQTYRRVQEPMPAPTLGKPRISSHATLPRLTEELTNYLK  
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 PRRHGKTWIVVAAIISVLLSSVENHVGYVAHQKHVANAVFSEVIATLSRWFPAKNLNI  
 KKENGTVIYASPGRRPSSLMCATCFNKNVSRFCFLSSGSRIASRDWLNPAGE"

SEQ ID NO 64 CDS 50959..51942  
 /note="unknown; ORF 34; similar to Kaposi's  
 sarcoma-associated herpesvirus ORF 34"  
 /translation="MFPSSFLNNNGHPETERFVKGVLQALDLCDNTPGQFKLVETPLN  
 SFLLVSNVLPESRPVRDCPQPEGDFEHILPKLTRMRQVLGRYCDHVNNDDTCVNWK  
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 LLFYGSRSFCREPECLYERNFGMKGPILLPPHMYAPQKDVMFTVHHVIKYVKFLYVNA  
 GGGLETEPSPPFEEASRLRAAIARLGVEADDAYLSAKCMLCHLYKQNDTISIHETHVG  
 GVIALLGGDARYITSSVRAQRCTSRGDFVLIPLYNIEGLVSMIREHGLGSS"

SEQ ID NO 66 CDS 51923..52372  
 /note="unknown; ORF 35; similar to Kaposi's  
 sarcoma-associated herpesvirus ORF 35"  
 /translation="MASAAAKMILIKSELESEIINKLISIVFDRFGADSAVFNAQYKG  
 TRESLRSYNSLKKDDLATVVGTLTSLREKQSELGLLKGFNRKKIEEFDAVADAVRD  
 LKDELYGELEIILGTLDNESVPVEEESPKDDIIRWKLERLPRVCPKSP"

SEQ ID NO 68 CDS 52278..53585  
 /note="kinase; ORF 36; similar to Kaposi's  
 sarcoma-associated herpesvirus ORF 36"  
 /translation="MNLFPWKSPPTTLLGGNWSVCPECAPKALDPIPKVQTDVDRT  
 ASSHITVIKTRKTIAQLKIPNNWGQCSHQATDWTAVLGRGSYGVRSMSLGRCVKHFG  
 SRREFFYECIFNDIVRACREKHPNLRGGDRILCFLEPCVPCRALIFPQLTGNLLNADL  
 KHVNPERLAVEFSELREGVSFLNNICGIVHCDISPENILIKGELTTAYGRLMIGDLS  
 ASLHTGTPWTGVMVTSKLGVQHTYHFKAPARFICKHIYRPSCLLYRCLLSCAGGPQA  
 HMLNQPFQITPQLGLTIDISSLGYSLLACLEKYLQPADPFPQQGALADASSEAHPLF  
 YLRCMVPRVIAEIFSVAWDVPLDLGIDSSGHAPAIPLREAYRRFFANQCSLYRAQYK  
 EDALENASSRLCNSKLLQKLLVRDYFSHCGNCGDHGFPLR"

SEQ ID NO 69 CDS

SEQ ID NO 70      CDS      53566..55008  
   /note="alkaline exonuclease; ORF 37; similar to Kaposi's sarcoma-associated herpesvirus ORF 37"  
   /translation="MDFFSDEPMVQEMALLDIDEQQRLLSKMSLANFLKHERVRAFFS DNKKEISMPAIRFVYNFYLFAKVGDFIGNTDVFYVTCVFRGRRLTRLSEVYDACL MHPHDRHHVCALIEQVTRGQNINPLWDALRDGIISSSKFHWAIKQQNSSKKIFNPWPI VNNHFVAGPLAFGLRCEEVVKKILATLLHPGEAHCENYGFMQSPNGVFGVSLDFGIN VRSDPKDGLFHPDCKIYEIKCRFKYTFSKMECDPIYAAYAKLYQKPSMQTLKGFLYS ISKPAIEFVGEDRLPSESDYLVAYDKEWEVCPRKKRRLTAVHHLVKKCMIHNSTAPSD VYILSDPQETGGQINIAHLSANLFINVRHPYYYQVLLQSLVVQEYISLSKGTKNLGT QKNFIAITGFFRKROFQDPSCCTIGEFAPLDPHVEIPTLLIVTPVYFPSVAKHQLVKQA TEFWAASAREAFPELPWDLSSLCANAPPTP"

SEQ ID NO 72      CDS      54963..55172  
   /note="unknown; ORF 38; similar to Kaposi's sarcoma-associated herpesvirus ORF 38"  
   /translation="MGFILSVCKRPTNTVDVKGEPIDVSKEFDPIIGEESIVLLTADG TAPAALYKPKTKPSKHKNNKLSDFV"

SEQ ID NO 74      CDS      complement (55255..56391)  
   /note="glycoprotein M; ORF 39; similar to Kaposi's sarcoma-associated herpesvirus ORF 39"  
   /translation="MKISRSDSFILSSWVKLVLVILGLMFIMSAVPLTATFPGLGFPC YFNTLVNYSALNLTVRSSAKHLPTPLFLEAPEMFVYISWAFLVDGYLLCYYAWAILAI FKAKRVHATTMTSLQTVLIGSHSVVFFMSILRLWTIQLFIHVLSYKHILLASFVYCI HFCLSFTHVQAMISCNASATWSLRVLEQQIPENSLLDTLLRYGKPIGANLYLISLIAMEM LVFSLGTMMAIGNSFYMLVSDIVFGSINLFFVLTIAWYINTEFLVVKYLKHQIGFYVG VFVSYLILLLPVVRYDKVFISASLHKVIAVNISMIPITCILAIILRIIRNDWKWCAKS PEYAPLPQGPKEKTTKVVKYSPELNALYETEEDVSDYEDAYPKYI"

SEQ ID NO 76      CDS      56526..57932  
   /note="helicase/primase; ORF 40; similar to Kaposi's sarcoma-associated herpesvirus ORF 40"  
   /translation="MNAREVALTGHLHISLHSTHEREKLIWIWQVHLLVCQQCGIQQD AAYLFVTETLSNTDWGNIPAINRHAPSINEHGRNYMQWELRTRLRLRNPIIQLLSRQPGAA VNRVSEPNMVIVGCERALDHSCSRVTGAYLHCDTMDFSLDSVSPTRFWFSEMF SHCLVSNIEVYLKTTGGLYYRASSATQCRKRAKGALGILDIFNCESEIQQAGQKYT LSIATATFHVWVDEACMWNGALAEFFRALHNKLFGDREGVAPTLTYVCPGATPEGTP FPPYFSAFPHPLPLVFGRRRLDVTAVQELPKAQIAVHWPPFKDSILGDQLLIPGISPK KPGTVPVWRWPLWEDVNLSLCETTESVARIVDPHSIVIIKFSSLQCQLKCHRAFKVN ELEYIATICSSDLRLFIQEEYNRLLATIFTWAAASGYTWAAIDKTTVFIKAPQLSAAV SGFCPSLNSCRRKQCYEG"

SEQ ID NO 78      CDS      57917..58528  
   /note="helicase/primase; ORF 41; similar to Kaposi's sarcoma-associated herpesvirus ORF 41"  
   /translation="MLRRLKITVHFLSQEQQQKVVTRLAEHLGLPVQETSHPPDWLKCE VCSASVFLKIPAGVLYAGLARDPTREAKRDSWLDCLVEGATLLLNNSVLPIGALAGIL PTLFANRRCVNFWLLPRAWVKSAPICPPLPIDCVTPPQFVVTKRGPICWYKEWPLPVD VDFMYYLQEALCVFSVVSNGEGTESHADNIRQLEKFEKVLCLF"

SEQ ID NO 80      CDS      complement (58525..59343)  
   /note="unknown; ORF 42; similar to Kaposi's sarcoma-associated herpesvirus ORF 42"  
   /translation="MDQILKRLMGEQHRSEAVMPETECSSRGPYNYPVFPRLMLEVHK KNSICMASNTPKLCVRGRLNVPDLGVHVRTRLQSATFTGFVFACVVEHEDMIDALDIY"

PHVFSDRVQLFKPASASVTELCCILSMLENYDKPPLSFILSALDRARYLHERYTCNDS  
AFVLYGIEVIASTLAAYHELNPPQGILRVPPVLFKLHKLLDENADDMKGLLKPYLE  
SFRLTENVGEEEGHAETFNIFYCGTIFTRHLHNASVLKYFQITSLHSIPRQTLF"

SEQ ID NO 82	CDS	complement (59297..61027) /note="capsid protein; ORF 43; similar to Kaposi's sarcoma-associated herpesvirus ORF 43" /translation="MFKMNPGFGSTCLVHPTELSLISLFEILQGKYAYVRGQTLHSSLR NPGIFGRQLFIHLYKTA LGSCTYDNVLKDWTNFETTLKTRWRGVHETLPEFKRSTFES WARTVRLTV DQLLLNTINQVLHTRTVLSYERYVDWVVALGLVPIVRRTPDGDTIARIQ AHCQQMRKTYASGDTVISRIVDKLAQEITSIMTDVTSIYIPDYAEVSVEFNGDKAAYL GTYRQKDITVEVVS RPIIYNGRVA FDSPLYRLFTA IMTCHR TAEHA KLCQ LLNTA PLK ALVGSTC NDMYK DILAR LEQSS SQTK DPKRE LLN L I K LA ENK TV SG ITD VVED FVT DV SQNIV DKN KLF GTG TEST TQGL RKQ VSNT VF CLTN QINE QFD TIS NLE KER DDY VKK IQC IET QLL QSL PEG GRPR HDIN ILT TQNTL QAL SLR DPT INL SECH IP KG SS V NSF FSQY VPP FM ML KEL TS L WE GEM F QTY NL TP V VD NQ QRT SI A Y S Q DT V S I LL GP FTY II AKL LTH MDL INH SL IS L H SL H DI AD Q L Y V D S R L S V Y I ND I GH K Y C E Q I S Q P G T D G P N T E A S N G G A A P I "
SEQ ID NO 84	CDS	60966..63338 /note="helicase/primase; ORF 44; similar to Kaposi's sarcoma-associated herpesvirus ORF 44" /translation="MESSVGWTKHVEPNPGFILNMTSDAKVRGVV DHVSRLSNITTSP PEMGWYDLA FDPAEDSGPFLPFTV LITGTAGAGKSTS ISALYQNLNCLITGATTIAA QNL SRR LKT FCPT T ISAF GFK SRH NIA VR KA H QT GA V S IE Q I QQ Q E L SKY W P V I V D I Q N L C E A G T L S S Y I L T T V V F F Y K R A V N L T N L T V T E W V T K N L F K L S N Y S Q F V D Q D M S I V A T E S T E R S T Q V T F I T K F V K N S H V S L N G K T K C I C G F Q G T Y F E F K R I L D S E L F V E T H S Q D R P E Y V Y G F L N L Y N A M Y S F H A Y G V T R S H E K Y L Q D L K F A P L P A A L A T G R V D L Q T V R E E L N L E D D I F Y H V C S P P P A G I T A Y V Y V A I S R A V N S Y L V M D S N P L K T L L R E P V D N T S A K H I V R A L H N P N T L I Y
SEQ ID NO 85	CDS	complement (63379..64437) /note="unknown; ORF 45; similar to Kaposi's sarcoma-associated herpesvirus ORF 45" /translation="MAMFLSDPSRTPPATPRMLPIPGAPRKRT RRFLFAGSRTGLPV PPGYGGPPVIDMTA PEDVFDQDS PPTPKTP KTPD ETDSH SE NSD Y SD V D E E P P V S P P R Q S R I D P H A R D G E S F N Q S G R L P T V I T S T G A T T P P S A P I L T A F G G P R P V A V V T G Q H R A P Q S E S D S E D F I D Y E D T D E S G G E A D G F S P R A S P A W G S D I R S P A E G G W S S D E E P V V A G V R A A C K R R A S R R D C N G D D V I Y V G T T Q G P K R R M T S T T G G A T S N P E G P G V S R Q T M A T P P V C G N D N Y P W P W L I Y
SEQ ID NO 86	CDS	complement (64479..65246) /note="uracil DNA glucosidase; ORF 46; similar to Kaposi's sarcoma-associated herpesvirus ORF 46" /translation="MEGWLKTIVWSKMSPEV LEEP ST QT L L L S D S W L E F L N L S P F L K Q K L A L L K R V M D M S N V T I Y P P I D R I M W W S Y C C E P E D I K V V I L G Q D P Y H R G Q A T G L A F S V A P D Y S I P P S L K N I F K E I A N T V P G F T A P S H G C L D W A K R G V L L N T I L T V E R G K A G S H A N L G W D W F T S Y I I S C L S A K L Q R C V F M L W G R K A I D K A T L I N G Q R H L V L K A R H P S P L A T A H A T G S P W P Q F L G C N H F K L A N D Y L V Q N R R G A V D W N I N
SEQ ID NO 87	CDS	complement (64479..65246) /note="uracil DNA glucosidase; ORF 46; similar to Kaposi's sarcoma-associated herpesvirus ORF 46" /translation="MEGWLKTIVWSKMSPEV LEEP ST QT L L L S D S W L E F L N L S P F L K Q K L A L L K R V M D M S N V T I Y P P I D R I M W W S Y C C E P E D I K V V I L G Q D P Y H R G Q A T G L A F S V A P D Y S I P P S L K N I F K E I A N T V P G F T A P S H G C L D W A K R G V L L N T I L T V E R G K A G S H A N L G W D W F T S Y I I S C L S A K L Q R C V F M L W G R K A I D K A T L I N G Q R H L V L K A R H P S P L A T A H A T G S P W P Q F L G C N H F K L A N D Y L V Q N R R G A V D W N I N
SEQ ID NO 88	CDS	complement (64479..65246) /note="uracil DNA glucosidase; ORF 46; similar to Kaposi's sarcoma-associated herpesvirus ORF 46" /translation="MEGWLKTIVWSKMSPEV LEEP ST QT L L L S D S W L E F L N L S P F L K Q K L A L L K R V M D M S N V T I Y P P I D R I M W W S Y C C E P E D I K V V I L G Q D P Y H R G Q A T G L A F S V A P D Y S I P P S L K N I F K E I A N T V P G F T A P S H G C L D W A K R G V L L N T I L T V E R G K A G S H A N L G W D W F T S Y I I S C L S A K L Q R C V F M L W G R K A I D K A T L I N G Q R H L V L K A R H P S P L A T A H A T G S P W P Q F L G C N H F K L A N D Y L V Q N R R G A V D W N I N
SEQ ID NO 89	CDS	complement (64479..65246) /note="uracil DNA glucosidase; ORF 46; similar to Kaposi's sarcoma-associated herpesvirus ORF 46" /translation="MEGWLKTIVWSKMSPEV LEEP ST QT L L L S D S W L E F L N L S P F L K Q K L A L L K R V M D M S N V T I Y P P I D R I M W W S Y C C E P E D I K V V I L G Q D P Y H R G Q A T G L A F S V A P D Y S I P P S L K N I F K E I A N T V P G F T A P S H G C L D W A K R G V L L N T I L T V E R G K A G S H A N L G W D W F T S Y I I S C L S A K L Q R C V F M L W G R K A I D K A T L I N G Q R H L V L K A R H P S P L A T A H A T G S P W P Q F L G C N H F K L A N D Y L V Q N R R G A V D W N I N

SEQ ID NO 90 CDS complement (65222..65731)  
 /note="glycoprotein L; ORF 47; similar to Kaposi's sarcoma-associated herpesvirus ORF 47"  
 /translation="MRSMYTLSLFITCGFFLITCCTGLVVNPCCCKIPLSDFIFPEPF  
 EIASFHLTNLALCPGLCTATLRYKADRSTTEICVNGFHLRAFFIRILYKLNYSVPREE  
 LQLLNMYMQYSLDEFIAEFDHFINGSESGTAYTRPPLDFSDRSTKVSIRKVTTRG  
 DLWRVGLKQ"

SEQ ID NO 92 CDS complement (65999..67168)  
 /note="unknown; ORF 48; similar to Kaposi's sarcoma-associated herpesvirus ORF 48"  
 /translation="MAVSIPVKGVNRETESNWRSLVTTFERHGNADRAIRSLLRFFKG  
 VDHPGFLASLVLKDVTIDSEKTIERTDLIPLLQGVRFVTQQIYMHLDHASESPMAE  
 IWRDCKERFLALELACGCQRCASAARQLRACQQACRPPKLNPHKQQCVAARLLTAVY  
 NQMVLTRVSVSEFCNLALMCVPREFGFVSGDVRVETSRVASCLNLSWLYLILDSYVR  
 TDLTNLEMAMSACRIGHLSAGDPFYSALVWLKNSYACDTNTFFTVNSTVTPILM  
 DICASLTGPVPDVVIKINMLPLVNDQMHPSVCVERANFTGSCPKVSPTHLDGLKLETT  
 SLTAAADSLLDILQALELICGDDEGILD SYISDINTETEVDESSIEEEIVFEELS"

SEQ ID NO 94 CDS complement (67398..68303)  
 /note="unknown; ORF 49; similar to Kaposi's sarcoma-associated herpesvirus ORF 49"  
 /translation="MSRHYGKDHLNMYKFHYPLGMIVGEMNTLTNVARNPLYQAA  
 TLRVERALYLSKILQVLMQHROGERFIVPQCRSNMVYCLKELHKITNDRIRGLINSVL  
 PLVDAGCVGFDEELVRLPEILKLEYPHAHELLPPHDPTSPLSWCLSHMVGVTKTFKG  
 EVKEMIDTFHDLSPVPSFOYLASLVKKFFLVEEVYEDYQDTQFNVFLNLcffWTTVIK  
 MYQSCIFKDLLDTIKACIELLKGEARQFFGWYDLNTPNLGSSALVYTEHLIRALSV  
 DSSAIPIGEICSHLHHCKHALLNLE"

SEQ ID NO 95 CDS 68494..70038  
 /note="transactivator; ORF 50; similar to Kaposi's sarcoma-associated herpesvirus ORF 50"  
 /translation="MECASLGPIISGLIADLNLFNLFCYRGSRVKTRGAATCNVPCAE  
 CAQGIVRILTERALCCTEKMFIAACSGVVIPIPQLARVLHDVYAEAKCAGWRRLL  
 CCRRPIMAIADSVLVTYNTLDAEGKLELRLKALCKLKVQPIFLQRILAPMQLLNGKM  
 VPDNYFTITGTAEKRRPVVTGSTSGMTCPGSSLVPDSLILPVCEPGLLPAPLVDLSNV  
 LENPEIILSAPPPLSQFVITNTHPSLPQSIVIITPTQGVPGQCFMDTWKAVSQSIHHQ  
 AQTPILAAALTGSTSAAPGPHIACSPVAGTSRQVEGSAGVDCGKpacVPQPALPPNVP  
 AKRMETVAQLGNAPVKNVHIGGRVYAPLVNIPIDIITSPSGSGSPADIANTPESRMA  
 AGSPPFAETAATVPAKRKQPREDVADKRLKGDVRAATVNHPFGPSGMVRREQGLFD  
 LIESTDVTANASGPKNDDMLAAILQDLYGLQSPPAIDSPSSNSDNEEIFPEVSPPS  
 SGHGSP"

SEQ ID NO 97 CDS 70355..70888  
 /note="R4"  
 /translation="MPRVKTQPKRPQVLEFMPLDLHGHTHEMDSDQNLCPDGQDLS  
 YIYTENNGPFSQIMHNGQSNTGTGESFGSYAAGDGFLGGSVSGMYGNNTGEGACSKRP  
 SACRKRSAAALIHAASEASVAEQGTSQGAHAVSDRIGRDGGADNRLLKVSARLSDKTKS  
 ALRSHPCLRCYSLMFNT"

SEQ ID NO 98 CDS 71468..72160  
 /note="R5"  
 /translation="MGFGNIRLGWRLCFMVWVAXIARGRSVCPTWHLTDGKYEAVYRH  
 YLEECRKHEGSGSLDGSGQTKGSGTKATTEANISIRPNVVTSGQNKEPPGTAPRAESS  
 HDLPRIKQVNALRLSTPELAQPLPVVKSTPRESQSGGTPWNARPHAFIMHTNDMLNPS

VVLSFRAIRARSTRDTEQSVRDRNTVTTSYRTPGRPSLFQARPSSHGARLPPSPRTMA  
RYAESRTICDQN"

SEQ ID NO 102 CDS complement (72401..72820)  
 /note="unknown; ORF 52; similar to Kaposi's sarcoma-associated herpesvirus ORF 52"  
 /translation="MSSTRPKTRAPKKELTMEELAAQVQKLSVENKQLKKLINSGDPT RSGSDPVISNTEKEAKIAAAVSALCNVATRKIEAKVRAATAKAVTRGQMEDALAGISI RVDVSMDETTRGIAASADGALRRRAQSRTRNNDAD"

SEQ ID NO 103 CDS complement (72884..73198)  
 /note="unknown; ORF 53; similar to Kaposi's sarcoma-associated herpesvirus ORF 53"  
 /translation="MTGSIVLALALLACLYLCLPVATVTTSSTGTGTPPVTTNPSA APSVTPSFYDYDCSADTYQPVLSSFSSIWAVINSVLAVATFLYLTYMCFKFVETVA HE"

SEQ ID NO 104 CDS complement (72884..73198)  
 /note="unknown; ORF 53; similar to Kaposi's sarcoma-associated herpesvirus ORF 53"  
 /translation="MTGSIVLALALLACLYLCLPVATVTTSSTGTGTPPVTTNPSA APSVTPSFYDYDCSADTYQPVLSSFSSIWAVINSVLAVATFLYLTYMCFKFVETVA HE"

SEQ ID NO 105 CDS complement (72884..73198)  
 /note="unknown; ORF 53; similar to Kaposi's sarcoma-associated herpesvirus ORF 53"  
 /translation="MTGSIVLALALLACLYLCLPVATVTTSSTGTGTPPVTTNPSA APSVTPSFYDYDCSADTYQPVLSSFSSIWAVINSVLAVATFLYLTYMCFKFVETVA HE"

SEQ ID NO 106 CDS 73274..74146  
 /note="dUTPase; ORF 54; similar to Kaposi's sarcoma-associated herpesvirus ORF 54"  
 /translation="MAEVTAHTVPYAFDSCCKFEIIPKNNSRIALRNKFPVVVKPGEPLVVPLGLKIIRAPQCAFPLSGAPTDEVYYHTGLIDQGYRGEIKLIVLNKTKQVVTLYR GEVNVLIAFMYASPGPLKCPILNLPHYSLADGFVTPSPHAMTIPIPPTDRTPTFLSLYY KSPQLSTPHVPLIVGRSGLATKGLTVDATKWTQSLVHLRFYNFTKEPIDIPANSRICQVVFIHEDHVPSPGWNLRLSRVQLGSLTQISWAKIRFTDVATLPKTHPLNSRHTQSQTEPETARGAKGLGSSGL"

SEQ ID NO 107 CDS complement (74207..74839)  
 /note="unknown; ORF 55; similar to Kaposi's sarcoma-associated herpesvirus ORF 55"  
 /translation="MAAPGSFWTCCGFSPFGRVGCQYRPLPDLNECPHTWRTEIAMGLPPGVDMGDVKQAEACTAALRQTYLLAVQSNKITEYLRRFDAARVPAGCQETVRIQISKLKSIQNVIWNAMLSLAIGDITVDESAFHALLNKRADETVSLLEMEKLATTIASDDSVTWAAEINNVLDTEASSNPSPHPVIRQPTPQLAVADNIVPDKIIQDAQADG"

SEQ ID NO 108 CDS complement (74207..74839)  
 /note="unknown; ORF 55; similar to Kaposi's sarcoma-associated herpesvirus ORF 55"  
 /translation="MAAPGSFWTCCGFSPFGRVGCQYRPLPDLNECPHTWRTEIAMGLPPGVDMGDVKQAEACTAALRQTYLLAVQSNKITEYLRRFDAARVPAGCQETVRIQISKLKSIQNVIWNAMLSLAIGDITVDESAFHALLNKRADETVSLLEMEKLATTIASDDSVTWAAEINNVLDTEASSNPSPHPVIRQPTPQLAVADNIVPDKIIQDAQADG"

SEQ ID NO 109 CDS complement (74851..77337)  
 /note="DNA replication protein; ORF 56; similar to Kaposi's sarcoma-associated herpesvirus ORF 56"  
 /translation="MVDEIRAIESTSGDMAEVITDILTEQATASFFCVLHDRGDAPI NTPHAVIKLCLPAKRGPGGPRCLPLMVNLPAWQVNLFLTGDAPLTSNDIKDRIDLAAQ TEEILEPILSVLACKRSAQQTKHDSFKSKVAWFRAKFVSALRKVYKMTPSPYWMITLL GSFEASFVLAGTFYFFQSHICTAETLVHLTRLFSSSQGQSLVTVNTYDELGRVFRSDFLGIVPNFWAYLKYMQODDVESRAIDQTINSIRGGMLSPQDLVHFIYLSFYECMNA QTFLSYSRTTSSLPTPATVNPPQLCRRLEADFKEHVMAYYNKASYLSTYITILTVPAP LPDGYENFQELACQYWCQGOSRDVAEIMTRINDQYPQLNLTKDLSGLLDIAALDQYSGGPKENLFTVASRIPTYCEFLNKQYFVLMHADCIDAYWKQNIIVPEDAQLQGLTDQDLTSRIFYCDLGLSLPTFKQQILVSRHEYFNPRLPVYRWVLDFDLKVTGRRTLNDIYNICVTLRQVILETLQLIGPLKPNHPVYFFKSACPAVTWPDDISDTAFCHCDAKIGMRIVTPFPSGYCLVGSAPLVSLLTDLNRVVKLDTRLASEYPGILEDKGPFDSGIVAKGRCVRVPHCYKVGPGGELSRLLKIIICHPEESDKSAYLKNAFKVSNLHHAPGDSVTKNGHLVYAITDENEGFLESKTKNNLPKTIDLAEKIERTTEKPLIDWAATAVWPKLHDTIQRFFPD DRIGQFASVSFMHSGDNIIQVKPKGNFFCINHKHRNHTQTVRVFLTLHSTKESEVT VTFMSQCFAAKCNHNSPTAHFSFMVPITGT"

SEQ ID NO 110 CDS complement (74851..77337)  
 /note="DNA replication protein; ORF 56; similar to Kaposi's sarcoma-associated herpesvirus ORF 56"  
 /translation="MVDEIRAIESTSGDMAEVITDILTEQATASFFCVLHDRGDAPI NTPHAVIKLCLPAKRGPGGPRCLPLMVNLPAWQVNLFLTGDAPLTSNDIKDRIDLAAQ TEEILEPILSVLACKRSAQQTKHDSFKSKVAWFRAKFVSALRKVYKMTPSPYWMITLL GSFEASFVLAGTFYFFQSHICTAETLVHLTRLFSSSQGQSLVTVNTYDELGRVFRSDFLGIVPNFWAYLKYMQODDVESRAIDQTINSIRGGMLSPQDLVHFIYLSFYECMNA QTFLSYSRTTSSLPTPATVNPPQLCRRLEADFKEHVMAYYNKASYLSTYITILTVPAP LPDGYENFQELACQYWCQGOSRDVAEIMTRINDQYPQLNLTKDLSGLLDIAALDQYSGGPKENLFTVASRIPTYCEFLNKQYFVLMHADCIDAYWKQNIIVPEDAQLQGLTDQDLTSRIFYCDLGLSLPTFKQQILVSRHEYFNPRLPVYRWVLDFDLKVTGRRTLNDIYNICVTLRQVILETLQLIGPLKPNHPVYFFKSACPAVTWPDDISDTAFCHCDAKIGMRIVTPFPSGYCLVGSAPLVSLLTDLNRVVKLDTRLASEYPGILEDKGPFDSGIVAKGRCVRVPHCYKVGPGGELSRLLKIIICHPEESDKSAYLKNAFKVSNLHHAPGDSVTKNGHLVYAITDENEGFLESKTKNNLPKTIDLAEKIERTTEKPLIDWAATAVWPKLHDTIQRFFPD DRIGQFASVSFMHSGDNIIQVKPKGNFFCINHKHRNHTQTVRVFLTLHSTKESEVT VTFMSQCFAAKCNHNSPTAHFSFMVPITGT"

SEQ ID NO 111 CDS complement (74851..77337)  
 /note="DNA replication protein; ORF 56; similar to Kaposi's sarcoma-associated herpesvirus ORF 56"  
 /translation="MVDEIRAIESTSGDMAEVITDILTEQATASFFCVLHDRGDAPI NTPHAVIKLCLPAKRGPGGPRCLPLMVNLPAWQVNLFLTGDAPLTSNDIKDRIDLAAQ TEEILEPILSVLACKRSAQQTKHDSFKSKVAWFRAKFVSALRKVYKMTPSPYWMITLL GSFEASFVLAGTFYFFQSHICTAETLVHLTRLFSSSQGQSLVTVNTYDELGRVFRSDFLGIVPNFWAYLKYMQODDVESRAIDQTINSIRGGMLSPQDLVHFIYLSFYECMNA QTFLSYSRTTSSLPTPATVNPPQLCRRLEADFKEHVMAYYNKASYLSTYITILTVPAP LPDGYENFQELACQYWCQGOSRDVAEIMTRINDQYPQLNLTKDLSGLLDIAALDQYSGGPKENLFTVASRIPTYCEFLNKQYFVLMHADCIDAYWKQNIIVPEDAQLQGLTDQDLTSRIFYCDLGLSLPTFKQQILVSRHEYFNPRLPVYRWVLDFDLKVTGRRTLNDIYNICVTLRQVILETLQLIGPLKPNHPVYFFKSACPAVTWPDDISDTAFCHCDAKIGMRIVTPFPSGYCLVGSAPLVSLLTDLNRVVKLDTRLASEYPGILEDKGPFDSGIVAKGRCVRVPHCYKVGPGGELSRLLKIIICHPEESDKSAYLKNAFKVSNLHHAPGDSVTKNGHLVYAITDENEGFLESKTKNNLPKTIDLAEKIERTTEKPLIDWAATAVWPKLHDTIQRFFPD DRIGQFASVSFMHSGDNIIQVKPKGNFFCINHKHRNHTQTVRVFLTLHSTKESEVT VTFMSQCFAAKCNHNSPTAHFSFMVPITGT"

SEQ ID NO 112 CDS 77578..78906  
 /note="immediate-early gene product; ORF 57; similar to



LAATPPSFNPYDYQRDGQHYDAYCELRIPLPSGRSRLCQARGRLLGAVRKSKYFEED  
 KEFPFDQFPTALVFRLRSSEEMSCPVCPRVCALRLELRNMRFAMLGRGMLHALSGPS  
 VSDQERRYREGHQDGHDAQDDDAAYSSGLLRARLMACAAPSAGDPWGHMHIKIYYYGQ  
 LQAEELLTATGGQIRLSSKPTNKAGHHVCVLDGPLQAWFPPIPQTESSVVQRLEDALK  
 WLVDGIIFCSTSREGIMFTITGGPNWFQGNTVEPVYSLPHRAYTGMHVWAFDTDRYLLD  
 MARSPSPRDTGPPAAFVKLWVGCSLGEERNSSRAPLSIIVYQTEIYRHFE"

SEQ ID NO 124 CDS complement (86355..87527)  
 /note="R11; similar to Kaposi's sarcoma-associated herpesvirus vIRF K9"  
 /translation="MAERMDLKAWFIEAVESKRYPGVEWDDDEDKTIIRVPWNRCTDS  
 RVDEDYNKIFDDFCGSARGVCQTGSHAQKFKIRMLYAVRSHRYLRELTPSKAGGVSG  
 ERYRLFQLLPEVTVGCDLCNLIAATTSLHSCSMGSCVREDVFERTRRPRAKAPLRSVSY  
 KRKSKRLQDSSAQPVLGAVEVSFFYFGENGVGVQILRAGSGVRICGLPDPKRGHLCCA  
 DNPLTCFLPSSQLIPCEFARADLQALQKTCERGLICVMTESGIVCNLEERNMTALTN  
 YSENYYELRPSQPLQAFDLLHYLRELARSPTPGDVPFRDCAWIFMCPSTQSENTWDAP  
 IALKLRYVCNDDVSDDVSNGAAGDDSGDEGPGAGVGASGTTGSTSVSTLAPYGRK"  
 SEQ ID NO 126 CDS complement (87894..88961)  
 /note="R12; vIRF"  
 /translation="MAEGRAGSIRVNRPGLRAWLLCDCDNDKHPGMHWLDEEKTLLV  
 LPWNHLKGAGGVSSDDERNMYLDYCQFKGIRQTGNRRLSVRECKNWLASAIRHSQTVED  
 VSTEENLSAPAPNRCRVRILLPIFVRSCPLCNEADATGGMLLDVNEVTARFRYLGAG  
 MEYEGAVGGDGEQCWMRLRVYYYGRILVGNMEVGSPNGVRLLPAPKRLQGHVCAGIR  
 PEQALLPHTPQDMFPHQTSMLKWLGKEIIRGLMIYADGSGIYIRYMGHVP AFLLGNGG  
 SLEPVDIINNARVLRVFSLAQYLSAVSATPPHGRFPAAAYASLHLGGVPTPEGEPCPT  
 IPLSIQIWIHECLWRACGDAQ"  
 SEQ ID NO 128 CDS complement (89122..90216)  
 /note="R13; vIRF"  
 /translation="MTEIEITHNHLLRWIISNLEANTFPEHLCWCDEEKRSFRISWHR  
 GMSGMQPVVAYCLDRDLECGRQHNVSECRKLLRVLRENAGFEQDDARATTTTRFGGER  
 FFYLRPAVDPLCYACILDHSETVNLYLEAACVHGLEPGTPLPPPAPAEADGAARSVY  
 ARAARLATVAPPHQDQITPFWRLRIRVFYFGLSLVAEHTSQDRRGVRLLHKRQDPKPGHE  
 CFYGTAYKMWLPKPQLDGPLPEQRETVEIINGCEEGVFLHGNELGMYVDNRTHTV  
 RCAGNDAEQGNAQRAVRSVKSQIFYVMGLLRRRLARSPVPGDTVPSNAVTLYLGGRPG  
 SSKRPQVPVTLVICQDELTHGDIRAARWIL"  
 SEQ ID NO 130 CDS complement (90462..91544)  
 /note="unknown; ORF 58; similar to Kaposi's sarcoma-associated herpesvirus ORF 58"  
 /translation="MGTYTSEASLAWLSFMSGTVSASPPFILCFIYHSLYFVEPLISVE  
 NIIIFSWGAVGLHGLLLFCIFGLPAWLSRQDVPCCTIASFLITAGSMASTLGVDLPWV  
 HVSIFVGSCLCLLCVVAANDVYVLCPTIAHRYELGFLAAFSVYYFLVLKNLFLAPV  
 FLLPLVAFIVGGVCSRLRSHPLYEAGLQRRHAIIFSLTSRRYITYSIKQALEVCGWDF  
 FYLVTVLIGGAAAGTLSVGLTTPLLLGLVHYFFVHVGLFCCLGLVFRSNVLALVYVL  
 AAAVLLTLTHVLGPGTHNLFTRCVFTVFLTMFGAIGCELOIIRKKLQRAANSPRIV  
 LGVCACGNLLMAVFFSLNKVELGAL"  
 SEQ ID NO 132 CDS complement (91555..92739)  
 /note="DNA replication protein; ORF 59; similar to Kaposi's sarcoma-associated herpesvirus ORF 59"  
 /translation="MPVSFHYGARVDVDAALGSISRVYDHIKGIVKKGVIQISGQGRAP  
 VLSVLSSVGDAGVLGLRLKNALAPLMVYSDMTDEVSFSFRNTSILGNTFTHTREMFGVN  
 IAEMNVAFYHHGDESDAEGKPQFVRTTIAYGDNHTSTVHSVVDENLPSFHDRLEQA  
 GTGNRLFLTVKTLTLLKWLQQKTRAKQVTVSLSETLAVATFTVDGVSKIIDFKPD  
 TPDAKWTCAAGRKLDGVVVSSDLTTHVSLESVAAALNACKIPGFFLPGFRWHANEILE"  
 SEQ ID NO 133 CDS complement (91555..92739)  
 /note="DNA replication protein; ORF 59; similar to Kaposi's sarcoma-associated herpesvirus ORF 59"  
 /translation="MPVSFHYGARVDVDAALGSISRVYDHIKGIVKKGVIQISGQGRAP  
 VLSVLSSVGDAGVLGLRLKNALAPLMVYSDMTDEVSFSFRNTSILGNTFTHTREMFGVN  
 IAEMNVAFYHHGDESDAEGKPQFVRTTIAYGDNHTSTVHSVVDENLPSFHDRLEQA  
 GTGNRLFLTVKTLTLLKWLQQKTRAKQVTVSLSETLAVATFTVDGVSKIIDFKPD  
 TPDAKWTCAAGRKLDGVVVSSDLTTHVSLESVAAALNACKIPGFFLPGFRWHANEILE"

VEGLPLTDSLADVRLGVMLLKVDPTDRNNAVPGNLSEGADPEGVPELPSPPRTPDLDL  
KEQCVPIAEDGAEPTDGGAKSLRTSGRPEKKHGKRKHSSPSRGKGKTKPRATFNP  
LF"

**SEQ ID NO 134** CDS complement (92868..93812)  
 /note="small ribonucleotide reductase; ORF 60; similar to Kaposi's sarcoma-associated herpesvirus ORF 60"  
 /translation="MFGLSIVTAAMESPDRFLYASDHGFLALTQETWQRWFPSQIS  
 LHEDSDEVRLSPTDREFYQQLFTFLGMAESLVNFNIEDLVKEFSNHDVTHYYAEQVA  
 MENIHGVYANILNLFFGGNRGDLMIYAKKIVEDATLAKKIDWLHSRVRKATTRAEKV  
 LLFLVIEGIYFISSFYSIGLFLRGIMRGVCLANDYISRDELLHTRAASLLNTMISR  
 DESPSVAYIHGLFREAVEIETLFIRSKSRDVTMVNVGDIEQFLQATADRILKSINIPP  
 LFGARPPNACPLSYTSAKSVNFFERDNSEYVTSHNDL"

**SEQ ID NO 135** CDS complement (93794..96160)  
 /note="large ribonucleotide reductase; ORF 61; similar to Kaposi's sarcoma-associated herpesvirus ORF 61"  
 /translation="MNTETSFSAAKSAKPLTLVTDAGTGGCSSLDPERCAESLVNSL  
 KATLGWDIEANSLTGLLWHRIMEDRCLVTVDYLAvgFGERLSDERAFMSKHEAALDG  
 LLQDFKQSKAYTNFVNCYLSAVRFYDLYVRLTGSSPIFESVAQMFMRVAVFACQC  
 IKFPCLRETLRHLVESETELDEMYLVGYAFHYISSQIVCCATPVLRSAGLRRGQLSSC  
 FILKPSMATEDKTLKALHEEMSPLLASKSGVGIDVSSFAEHKNITSCLKLINAHVGYF  
 NDNNIRPVGASAYMELWHHQICDFLNAKMPENQERCHNLFGQGVCPPELFFRLYETNPD  
 GQWHLFAPEVAPNLLKLYGAEFEIENRLVAAGKHSSLPLKSMYALINTVIKTGSP  
 YVLLKEALNKHWCETQGSAINCSNLCAEIVQQPEGQASVCNLANISLPKCLRPHRGE  
 SGVEPGKGDVTGFELDDAVEAAVIVNACILGGTAPTESVRRGQEERSMGIGVQGL  
 ADVFAELGFGYLDAESAKLDVEIFQAMYFTAVQTSHEIVLLGEGTFRGWEERSRLAQG  
 VFHWQTWDGVVKPSHPLERWEQLGRSIAQHGFNSQFLALMPTAGTSQLTGYTEAFYP  
 FFANIAKVTSEEILKPNVTFFKRVPGDLRTVRRYGGDASFPEPLKDRYKIFLTA  
 FDYCPIKQLERAGARAPFVDQSOSLNFFLKEEQATRASYIRDLLTGYRLGLKTMLYY  
 CRIQKQTKLNALQCLDQVVGDNISSEGAESNCVQKADGERTKVCLACQ"

**SEQ ID NO 136** CDS complement (93794..96160)  
 /note="large ribonucleotide reductase; ORF 61; similar to Kaposi's sarcoma-associated herpesvirus ORF 61"  
 /translation="MNTETSFSAAKSAKPLTLVTDAGTGGCSSLDPERCAESLVNSL  
 KATLGWDIEANSLTGLLWHRIMEDRCLVTVDYLAvgFGERLSDERAFMSKHEAALDG  
 LLQDFKQSKAYTNFVNCYLSAVRFYDLYVRLTGSSPIFESVAQMFMRVAVFACQC  
 IKFPCLRETLRHLVESETELDEMYLVGYAFHYISSQIVCCATPVLRSAGLRRGQLSSC  
 FILKPSMATEDKTLKALHEEMSPLLASKSGVGIDVSSFAEHKNITSCLKLINAHVGYF  
 NDNNIRPVGASAYMELWHHQICDFLNAKMPENQERCHNLFGQGVCPPELFFRLYETNPD  
 GQWHLFAPEVAPNLLKLYGAEFEIENRLVAAGKHSSLPLKSMYALINTVIKTGSP  
 YVLLKEALNKHWCETQGSAINCSNLCAEIVQQPEGQASVCNLANISLPKCLRPHRGE  
 SGVEPGKGDVTGFELDDAVEAAVIVNACILGGTAPTESVRRGQEERSMGIGVQGL  
 ADVFAELGFGYLDAESAKLDVEIFQAMYFTAVQTSHEIVLLGEGTFRGWEERSRLAQG  
 VFHWQTWDGVVKPSHPLERWEQLGRSIAQHGFNSQFLALMPTAGTSQLTGYTEAFYP  
 FFANIAKVTSEEILKPNVTFFKRVPGDLRTVRRYGGDASFPEPLKDRYKIFLTA  
 FDYCPIKQLERAGARAPFVDQSOSLNFFLKEEQATRASYIRDLLTGYRLGLKTMLYY  
 CRIQKQTKLNALQCLDQVVGDNISSEGAESNCVQKADGERTKVCLACQ"

**SEQ ID NO 137** CDS complement (96163..97158)  
 /note="assembly/DNA maturation protein; ORF 62; similar to Kaposi's sarcoma-associated herpesvirus ORF 62"  
 /translation="MKTRDANVNKLNDLMSMRLLPPPPHRVSLSRGRDFSKGVRDLLSK  
 YVVSTTGVEAIKDGFLSVSPTCQTYGDFLIYSQTMSSQEPRGTYLFSFKQTDTGSSI  
 DMLFTPTSLARLSRMDADSAPQTNRRIACVWYGHESGLDAIPNFEELLETGSLHQFLA  
 PVGPLVQTVHSTFVTKVTALKGVVAREPVVTHIGLTLPSDMFVDLDDSCPSSLRDE  
 PLPAHSSIVVCLTYIRVNNRPAALGLGFFKSGKGYCEIAAQLRDFYSGVIRTKYIQLQN  
 DLYINRLAFGVVCRGLGSVPGLQPSFQSLHFKGAALPVLKFTEFVSNPGSWKLFL"

**SEQ ID NO 138** CDS complement (96163..97158)  
 /note="assembly/DNA maturation protein; ORF 62; similar to Kaposi's sarcoma-associated herpesvirus ORF 62"  
 /translation="MKTRDANVNKLNDLMSMRLLPPPPHRVSLSRGRDFSKGVRDLLSK  
 YVVSTTGVEAIKDGFLSVSPTCQTYGDFLIYSQTMSSQEPRGTYLFSFKQTDTGSSI  
 DMLFTPTSLARLSRMDADSAPQTNRRIACVWYGHESGLDAIPNFEELLETGSLHQFLA  
 PVGPLVQTVHSTFVTKVTALKGVVAREPVVTHIGLTLPSDMFVDLDDSCPSSLRDE  
 PLPAHSSIVVCLTYIRVNNRPAALGLGFFKSGKGYCEIAAQLRDFYSGVIRTKYIQLQN  
 DLYINRLAFGVVCRGLGSVPGLQPSFQSLHFKGAALPVLKFTEFVSNPGSWKLFL"

**SEQ ID NO 140** CDS 97157..99976  
 /note="tegument protein; ORF 63; similar to Kaposi's sarcoma-associated herpesvirus ORF 63"  
 /translation="MASSIPAARADNGDENTGGLYKLTNDLCTGSLQQLKLLMEFQ  
 LKPLPTAHLLSMPVTFLNTAFKIDNPLVFSIQLKHPVFLMRVARLPEPVITDHQSA  
 ETSTGILSEVVNVNLNTAIRKPHESPAAKNDYLDNRAILAMITEYIHHVTSRTPSGIP  
 PTPPMGISHLPCVEQILHETHRQYWNLTLPESLFIDIGEVAŠPLQTLILSYCKKQL  
 APPPLFPPVDELARRLVTGHHELPVPLSTSLEYITMPVSKQRAFEIYSVFAKSKNIV  
 DGTPILAFTDTELTTFTPELLFLYDFVIESLCKNQAYGCSRNAIEHFIIKKGIDFMAEL  
 GAFIEKTCGYRSTVSLNSNVRAVKARLASCGSKEACEDFRAMILMTPHETTPKWENFT  
 DFLEMVNQLTLYGFYFYECLNQYSPTSISLAKIQNILNRVDAEQSDRALWRTPLIGSF  
 PFPWKLNNSLAFFKPSTPVATLQKIQYKAIPSYLMSRLFEIAANKSWGNIALAESAPLT  
 DIQTAEPDQGPVSAQVIAKYCSRLQISATDYDAIAIVSSPGFAAEFIKTKLYPILSEVL  
 RNTSKKNRSLFQIRWLIVFAAEDARDLAPIRRLSALAYFQIMDILEEKHSPESFYNLL  
 DYLOETFRCIRQVIEPATCPQEFQYLFTFQNIPIAASFQTSMTFVDDLKNGIPGIL

**SEQ ID NO 141** CDS 97157..99976  
 /note="tegument protein; ORF 63; similar to Kaposi's sarcoma-associated herpesvirus ORF 63"  
 /translation="MASSIPAARADNGDENTGGLYKLTNDLCTGSLQQLKLLMEFQ  
 LKPLPTAHLLSMPVTFLNTAFKIDNPLVFSIQLKHPVFLMRVARLPEPVITDHQSA  
 ETSTGILSEVVNVNLNTAIRKPHESPAAKNDYLDNRAILAMITEYIHHVTSRTPSGIP  
 PTPPMGISHLPCVEQILHETHRQYWNLTLPESLFIDIGEVAŠPLQTLILSYCKKQL  
 APPPLFPPVDELARRLVTGHHELPVPLSTSLEYITMPVSKQRAFEIYSVFAKSKNIV  
 DGTPILAFTDTELTTFTPELLFLYDFVIESLCKNQAYGCSRNAIEHFIIKKGIDFMAEL  
 GAFIEKTCGYRSTVSLNSNVRVAKARLASCGSKEACEDFRAMILMTPHETTPKWENFT  
 DFLEMVNQLTLYGFYFYECLNQYSPTSISLAKIQNILNRVDAEQSDRALWRTPLIGSF  
 PFPWKLNNSLAFFKPSTPVATLQKIQYKAIPSYLMSRLFEIAANKSWGNIALAESAPLT  
 DIQTAEPDQGPVSAQVIAKYCSRLQISATDYDAIAIVSSPGFAAEFIKTKLYPILSEVL  
 RNTSKKNRSLFQIRWLIVFAAEDARDLAPIRRLSALAYFQIMDILEEKHSPESFYNLL  
 DYLOETFRCIRQVIEPATCPQEFQYLFTFQNIPIAASFQTSMTFVDDLKNGIPGIL

DLVSLGAAFYNMKLLYDSTLDTVEIPTEEGQPIVVSFVKSTIRVLEKLLQEAVIAL  
 TQTSEPMYAAHIRLMQHLTYMQKIAHGHEIMTQLPSVFHEIHEGYLQCFKRFKRLMLH  
 VTGSCCYSLTRYFGFLYQPPLIPDTIVQKILNFDKTDTTDDILKSLSQPVRQGPLSA  
 ENESSSRLSKNNVELLQKLYDDFRTASTNNNPTSIKLEYSGNYNETQVSVDWSTYNLV  
 TYTAPDDTLKFTPVNTEALDRMFAE"

SEQ ID NO 142	CDS	99980..107626
	<p>/note="tegument protein; ORF 64; similar to Kaposi's sarcoma-associated herpesvirus ORF 64"</p> <p>/translation="MELPPIFSKFKIEGVATTHQACDRFGQYAGSQCLSNCVIYLAQS    YFNRESPVTDTNDLDDVLRQGATLDFILRRSGTLYGYNQYAQQLHHIPSFIKTNEWTAII    FQSQEYFGLIGLDAIREPFFESLKSILTRNYAGTVQYFLFICGDKAGAVIIKNKTFY    LFDPHCVPHPVNSPAHSVSSSDPTAILEYVSPPDREYTSFLYIMPSEYVNPEHYITN    HYRTITFAVKVHGPIDISTGIEPTCTIEDIPSPPRSPDVTSKSSNLARVPRTTDTSSA    KPPPATLSGLRGAEPPTSYDPATNDADTKLLTPAPAQTAVDHPFQTTPGATLLLSE    LSASRGRKRKLSSIQRYSDSDEASSDDEGAPRRRVHDDAISAEVIWMDDDISPLYSPS    ATPSFDDVFDSPPMSPFETYEDATEDTDGAFLEQIARDAAETPFSAFDDLITDHDSSL    DKKIEQLIKYEAQPSQHLPNISDKQNGRAVREAAALQMDKIMINIILEHGLITDAQAR    GPSACKNVLQFFFILWGEKLNIPISDAKQVLELDQLIPLHTAISEGKFKQGAFKKHLT    TKINRCLASMRATHADAQKKLASAFNVEGSQISSSEAKISVRALKEQIANHLSPGFLA    VYSADEVKHLRDKIQDLKGTIEQRNKEIQQEELFFDAMLTALDTFQPPPCTAFPMEIF    PHRKTEVMLDHLASITTRLTEDATEALNNYLETPPDQGTHITNIPNFSSI VANIISTL    KILTYAENDMQLNVTPMATYRRQQLYLGGELETIFNLEWPYETVPPVQELPLVARAKA    KMESVTKMEKNQOALDQILGDAETLLDTITATSGDENPVRAMSIPILETYITNAGALI    GSSRNQRFEKLKAAIHDLASSESFIIMLLNNTRLDNISDNLAKIDGILTNNTRFLSNA    TVSKTLQTLGGSLIRECVEALNKRSPSSLNNARLLAVQTLGHASVPDHETLTRIVSG    VASAQKESAGDDPDRWTRVTGHLNELKLVTTQSRVDKATRRKLLMIITRDLKEAEVSQ    ETVLETRWQENVLKFQPSITSKIEDFLQAPSAKARKFAEKHLRTLITQFNGHERPPS    EATAVPMDDYPTPTPIPTPQAVSTATAEKGKAAWNKIQQAFQDFNHLIDASDWQEMASE    YSRHGSSLPGTVPGPVLRFMESISNTLDDILTQKLASLLPNGPAFRPPAFDWIAPYQT    RVNAFLKTIQLPMVRNLADKIHQCQTVSHAVQSAQDQQATVGTSLERPAEYCRILS    DMQVAFNDHGIAVRSEAAAYTDAINS PANVVTTPPKPNLEAPKKLITATDALTVEDFPD    FLKTSILQQEQRLLIAQLQRAEFQQLEASISAAERLRQSTRDEIAGKMATAITQLLPRAP    VAISSRPLNLSKPIDFLSSTVYDKILDKEPYETAIAGFAWLEIATKSVMVYSQNETQ    QLNVLSEVEKQSTVAQRLHDLELSAKNTDDVKVLQKALDELAPLRVKGGTTVDWK    QKLESIESLRLATRTAGEISSELERIGTQAVGTITVRLGTLSDQCRAAFLRQASL    PEGFSDIGTKLSELQAYIKYKKQFLEHFETTQPNVFQRFPLSQNITENVPARPAMDSV    ARLTNHLHVRGSAPHFTTWIETLPTDPEKPTHVPAGGAPLHRQITYSVNLEALFSL    CSTTLTPVPTAPGLEIATRARRGAEAAATWMDRQWPDIATQTLQDVLDTYEHTTAHANRD    AAFNTFLAMCVFTQIIRGASRAVTLPLKLPSTAVDFPPEEIVLTRECTTLVTAMWPTLA    AAILRLKSYSEALGLMSRFLPLMFQALPHLTLEAQVKNGPHNTPPQLRCFAKTEAIPY    FPAQWQSANLEQSLWQGQDFLQICDNNQRKARVAAVTWALTTIDGVVLDQLWSTFKPM    TAASDDTYVDLVETLHLTTFGPRGPTPRRETTTEHPPYEYGQPTGYCISGQSTTPVQA    SNTPVSAFEAVLGAMVFHVPIRIFLAATPKRLQGQARGGMGLLPILECPDVEPFKSL    YNAPRKPVPIETLPASLHPHDERQVFLRQAQWLSYRFTPHEAARSSTPPLVVIDPEN    LVTATYSSGGPANFESRPFYVMPGPYPPDWPKTLSVTSNTSVTHLSHDEICNLFTTLS    REHGTVQGRDIFAAAPTNVTPEQTAANPPAWETDNRLITQTTETAKPHIIPASPKARTD    PPVETTTHHSQGQASQHANSNVNQPGQITSHASRNTPSTAPQASSSPEKFNTQTVPR    ISQTSETAHINQPASGQVTEPKGIFGTYKPRVLTEPAK PANAGVASRQPEATTTPKL    PINPPTARVFIGTAKLSPAVEREESHGATPDAHQSKIDREKYAESRPRRTPHLEEGPRE    PHVNTPTSAHINVPSSQGQKTVHGRENPGLQATPSAPQPTASNPRIQYTLPTDGRL    LHDESEVESTPTEEVKRSPKTQDVSHGPEPDDSRWTAPLGPTIEIHRLEHPQILKNIT    SLTVPTPRVTPIPPTNIWIPLSHVNIQHEEITRAKNVLMRFIQNVRRKLQASSDALSE    AIARIKFYL"</p>	

SEQ ID NO 145 CDS /note="capsid protein; ORF 65; similar to Kaposi's sarcoma-associated herpesvirus ORF 65"  
 /translation="MSSLRVKEPIVQGRLEHDYPNHPVVAEMNNLPQGDMSPAQYAIAKRNYLVFLTAKHHYDMYMQKKNGILRKDHRLRLRGKKDASSSISGVLSGSGSAAPSVAPVASTLGSNSFTTISSGPHSLIGSMGPAPGGGPGSVASSGIGSTSLSPSDATTLDTRRSSQNKKS"

SEQ ID NO 146 CDS complement (108152..109498)  
 /note="unknown; ORF 66; similar to Kaposi's sarcoma-associated herpesvirus ORF 66"  
 /translation="MASGRLPNLAEDEAACRGSYPAHRWLDGSRLGLDLAASIRSI GLCPECYVCFTYGLGAWDGRPPKWACTLISAPSQTALNEIATGWRPDNPBKNGDVR SRLHDIGRSLEAYAWVLRICCTGVGCPSEGLSLTAVPRSAWSRYLVVSFQRACCLV CKTLNCRQRFPVLTCLPQHALDLPVLRKKWNGGCVSMQLNVPISRRLGANLNESVP GPSDAGLLASLRELAPTVPCGNPFNALLRSLTFRALLSMSRVVLPIGESTETEISRDL GQKVLAYNVLFPCISLPVWSQVVARSVLEKTVAPRVVVCLECGYCLNFGRGKFETVN FPPTNVFFSRDQKEQLSICATTGRVYCSYCGGSHMRVISLFEITCVGDPYLRCVLAN NAAHAIRDANSLVSVVVPCLASPDCATGLLKHLRVAELFYLTSSISSLSCGKCNRS"

SEQ ID NO 148 CDS complement (109524..110198)  
 /note="tegument protein; ORF 67; similar to Kaposi's sarcoma-associated herpesvirus ORF 67"  
 /translation="MSSGKRLVDELCDLVSYLGPSGISLDLERCQDGAPVYAKGGAV PVCTVRLQHGCVYHLEFVYKFWLHKLERLAYPFAPCFVIINNGLATTLKCFLCKPRDA DAQFGKNLPINSDVYLERNSSVSLGQDDFMKFKARLVSGDLYVSSMVICRTYFTEH RQVLQFLVVTPKSAKRLKTLLRTVFALTGHSDGLGALRRTGSVARPSGSELKDIGRGERAAMTN"

SEQ ID NO 150 CDS 110609..111982  
 /note="glycoprotein; ORF 68; similar to Kaposi's sarcoma-associated herpesvirus ORF 68"  
 /translation="MFVFWQLETLMRHPSLRLVEQSFLLPGTPDGAFNSPVLINTQDSLQPASSCRVCSSLFTLVRTFPFPDSFFEDYGWLCLTCLYAPRSWTATLMAADLLESLHVVFPQCVKDGTVYTAQSIQSLGIDVQLHFFATRCFRPIDREQILHTSHLNFLQTEFIRGMLEGТИGSGFCFKTSWRTEKDDQQPTVACCSVGRGSHTNRDNRLPEDLEEAFTNAAEKPSSLGVFSATWAESQLGSDTQQADTHLQPSAFPTPEDADQSQGPCLMHPTLNLTKNHTASICVLCECLAAPHDAGPVLKDLRDRILEMENNWKLVNRISYILNDPDSLSHVRDEHLRGLIKRCSAQEIHKHFFCDPVCVLNTYSHCPAVLFKCPPPEKYKKLARLATGEFLDCNRIFDCETLQTLAVLFKGSQLAKIGKTTSLIIRELGQLRRHNIQITHPQTSNLYI"

SEQ ID NO 151 CDS 112004..112897  
 /note="unknown; ORF 69; similar to Kaposi's sarcoma-associated herpesvirus ORF 69"  
 /translation="MPKQPRSRSLASRAPYAPS VRRPDGPQSTRPASRHGSCKSEIMQWKKLVSDTQFFSALTTRRHELGVDLREMGTPICTS KSVMLPLNLKTIAPGRCVSLSSFGHSSNMGFNCSSCTPTDRSAVSLDANALGEDSARKNSELCSVALTFYHAEKVVQHKGYLSLLSHSMEVVRKSFTQPGLLYAHVLVLTFGHDPLPIFTVDADERLALWAVFHTRDLHLGETSLRLIMDNLPNYDITVDCIKQTYIMKFTPSRPDNATVTVPVNSICEAVATLDCTDEFREEIQRGTAIINSQGLL"

SEQ ID NO 152 CDS complement (119211..119735)  
 /note="FLIP; ORF 71; similar to Kaposi's sarcoma-associated herpesvirus ORF 71"  
 /translation="MFPHKRLVDFGRHLEADDREAVLWLFDRPASDDTPEGFANGLCPSTGEGPIPLPVLLLEAVFLVGRLDLVSTFFL LDVGFIIERL RSSPSYFSPYKHLMLSIDRQLSERDVKNLVFLTGDQLGRRRNQSPTFFRWLSQMEKAALVSPSNYMVLSDLLQAVS

SEQ ID NO 153 CDS

## RRDVAKVVAANAPG"

SEQ ID NO 156 CDS complement (119794..120558)  
 /note="cyclin D homolog; ORF 72; similar to Kaposi's sarcoma-associated herpesvirus ORF 72"  
 /translation="MASVGPVPTGTIDPVLYQDRALSNLAAHEASFVTSTACYGTIQT  
 EVTVGMRVILGTWMRSVARAHQADASVPLAVSILDRLYLECRSIPRRRFQRLGAACLF  
 LAGKIRDLPFKAFLCFCAAEDFSVADLKQEKSIKLKALRWKLEAVLPTDAIGPTLF  
 KSGFTKEQLFALHSQVVESVHKAIIVNPATGGLPPSLVAAACALFSLGAAAPPPARLAE  
 AVGVSAATLAAAESVATTREFDEDHILSNARGSS"

SEQ ID NO 158 CDS complement (120866..122212)  
 /note="latent nuclear antigen; ORF 73; similar to Kaposi's sarcoma-associated herpesvirus ORF 73"  
 /translation="MWGSRQHRSGIVSGHGLRSSCRGHGCRGGTREQAGRRGRGRGT  
 AAPAAAPAPAPTTSGPQVRAVAEQGHGSDTETATESRHGSSQGSPSGSGSESIVL  
 SPTPSPGSAPVLASGLSPQNTSGSSPASPASHSPPSPSHPGPHSPAPPSSHN  
 NQPSSFLQPSHDSPEPPEPPTSLPPPDSPGPPQSPTPTSSPPQSPDGP  
 TPQQAPSPNTQQAVSHTDHPTGPSRPGPPFGHTSHSYTVGGWGPTRAGGV  
 CLRLR CTSHNSHEDAEAPERQQEGERQQPARPPRPPRPPRYP  
 QRRFYRQVLGPRIDPPRPGPWCHGVIFCNSDPYSLYRLARCLQFPGIRASS  
 VRLPDA PGSPVIPAFCCITVFCQSRGTAKAVKKARRRWERHPSAP  
 HFQASIVRMDRGLPIQH"

SEQ ID NO 160 CDS 122866..123627  
 /note="R15; similar to Kaposi's sarcoma-associated herpesvirus K14 and ox-2"  
 /translation="MSGGITLTLLLATVRCALQTHYAAVPVHSTASLGCVLTTPH  
 DVLIVTWQKQESPSPVNVATYSSEAGTVVQPPFAGRVDIPEHKLRTTLKFFN  
 ATLED EGCYLCIFNAFGVGKLSGTACLTYYVPLSMSVTYPPINPTQLVCRA  
 EASAPPSVNWT GVPPELCSEPEVFPRPNTTLVVGRCNVTSDPEDLENAT  
 CLVTHIGGLAAARPLDPV FSDPLEGTSHYVVGVAAA  
 AVLGIFLTGVFLYRSM"

SEQ ID NO 162 CDS 123924..124952  
 /note="G protein coupled receptor; ORF 74; similar to Kaposi's sarcoma-associated herpesvirus ORF 74"  
 /translation="MDALNNNLNLMDFLSNYSNSYSSYDDNMSYTL  
 DTESTLCRLTV VFPPTVYAIICFFIFCITLFGNALVYIFFKFK  
 KALANSVDVLMAGLCCNSLFLCASFL FSWLLYVAPQMLTSATCK  
 VEIFFFYLYTYFGVYIVVCISLIRCLL  
 VFSRRPWVKHGA SGFLCVCVSL  
 LIVALALSANASLYRTALRHPETSEW  
 ICYEDAGEDTVNWKLIRRT  
 TSAI CGFLVPGFLMVFYGLTWCMVKSTKLARKGA  
 VARGVIVTVVVLFLIFCLPYHLCN  
 FFDT LLRTGFLAETCYLRDV  
 ISVAMHICSLQSMYSAFVPVVYSGL  
 GSLFRRRV  
 RDTWSVFR CFSTSGSL"

SEQ ID NO 164 CDS complement (125057..128953)  
 /note="tegument protein; FGARAT; ORF 75; similar to Kaposi's sarcoma-associated herpesvirus ORF 75"  
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 DLM RQPTTR  
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HIVNHTSVFTDRMARVPIYRPQPITRQDATERLVSPEWVTQGRGRNRWVGQCVAYGE  
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**SEQ ID NO 166**

**PCR primer**

**CCTATGGGCTCCATGAGC**

**SEQ ID NO 167**

**PCR primer**

**ATCGTCAATCAGGCTGCG**

**SEQ ID NO 168**

**PCR primer**

**ATATTAAACACTCGCCGC**

**SEQ ID NO 169**

**PCR primer**

**ATGAGGGGCCCTTCGTGTGC**

**SEQ ID NO 170**

**PCR primer**

**CTGAATCCCGCTGCCAAGGCC**

**SEQ ID NO 171**

**PCR primer**

**ATGTTCCCTGTCTGGTTCGTC**

**SEQ ID NO 172**

**PCR primer**

**TTACATCATAGCTATTGCGCG**

**SEQ ID NO 173**

**<213> Macaca mulatta rhadinovirus 17577**

**nucleotides complement (23398..23668)**

**SEQ ID NO 174**

**<213> Macaca mulatta rhadinovirus 17577**

**nucleotides 25065..25368**

**SEQ ID NO 175**

**<213> Macaca mulatta rhadinovirus 17577**

**nucleotides 25518..26525**

**SEQ ID NO 176**  
<213> Macaca mulatta rhadinovirus 17577

nucleotides 114979..115383

**SEQ ID NO 177**  
<213> Macaca mulatta rhadinovirus 17577  
nucleotides 115385..116413

**SEQ ID NO 178**  
<213> Macaca mulatta rhadinovirus 17577

nucleotides 131731..131926

**SEQ ID NO 179**  
<213> Macaca mulatta rhadinovirus 17577  
nucleotides 132333..133719  
partial terminal repeat